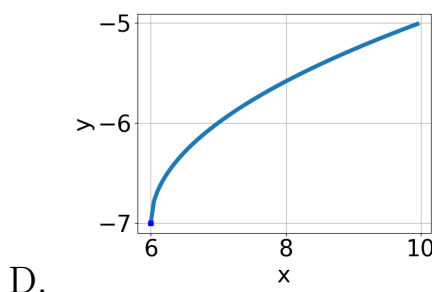
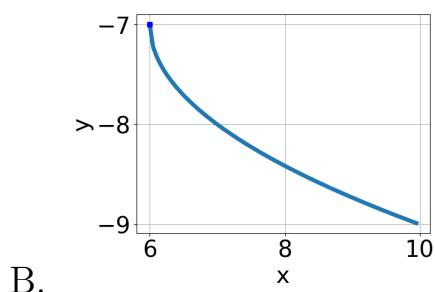
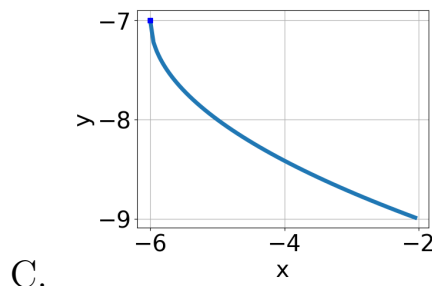
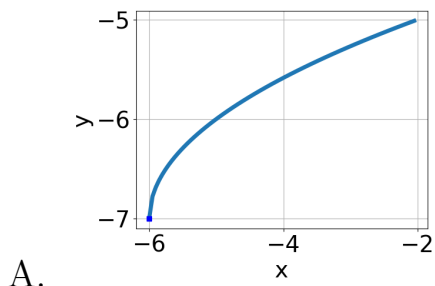


1. Choose the graph of the equation below.

$$f(x) = \sqrt{x+6} - 7$$



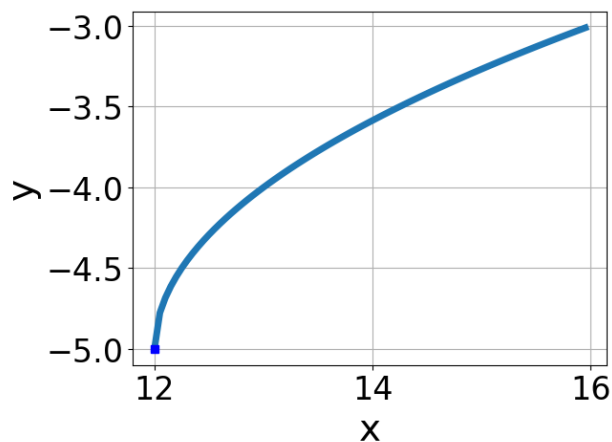
- E. None of the above.

2. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{14x^2 + 10} - \sqrt{39x} = 0$$

- A. $x \in [-0.2, 1.2]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-0.2, 1.2]$ and $x_2 \in [2.5, 5.5]$
- D. $x_1 \in [-4.5, -0.9]$ and $x_2 \in [-5.29, 0.71]$
- E. $x \in [1.9, 5.3]$

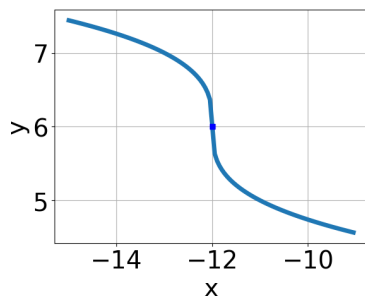
3. Choose the equation of the function graphed below.



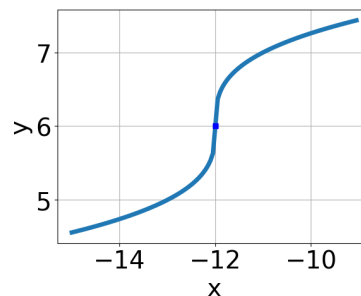
- A. $f(x) = \sqrt[3]{x-12} - 5$
 B. $f(x) = -\sqrt[3]{x-12} - 5$
 C. $f(x) = \sqrt[3]{x+12} - 5$
 D. $f(x) = -\sqrt[3]{x+12} - 5$
 E. None of the above

4. Choose the graph of the equation below.

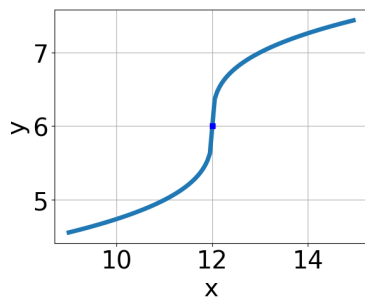
$$f(x) = -\sqrt[3]{x+12} + 6$$



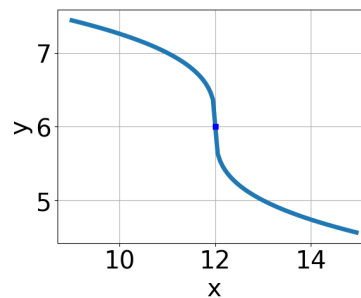
A.



C.



B.



D.

E. None of the above.

5. What is the domain of the function below?

$$f(x) = \sqrt[5]{9x + 3}$$

- A. The domain is $(-\infty, a]$, where $a \in [-2.33, 2.67]$
 - B. $(-\infty, \infty)$
 - C. The domain is $[a, \infty)$, where $a \in [-5, -2]$
 - D. The domain is $[a, \infty)$, where $a \in [-2.33, 3.67]$
 - E. The domain is $(-\infty, a]$, where $a \in [-5, -2]$
-

6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{2x + 2} - \sqrt{-4x - 4} = 0$$

- A. $x \in [-0.9, 4]$
 - B. $x \in [-2.2, -0.1]$
 - C. $x_1 \in [-2.2, -0.1]$ and $x_2 \in [-2, 3]$
 - D. $x_1 \in [-2.2, -0.1]$ and $x_2 \in [-2, 3]$
 - E. All solutions lead to invalid or complex values in the equation.
-

7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{2x - 5} - \sqrt{-5x - 2} = 0$$

- A. $x \in [-0.04, 0.7]$
- B. $x \in [0.86, 1.64]$
- C. All solutions lead to invalid or complex values in the equation.

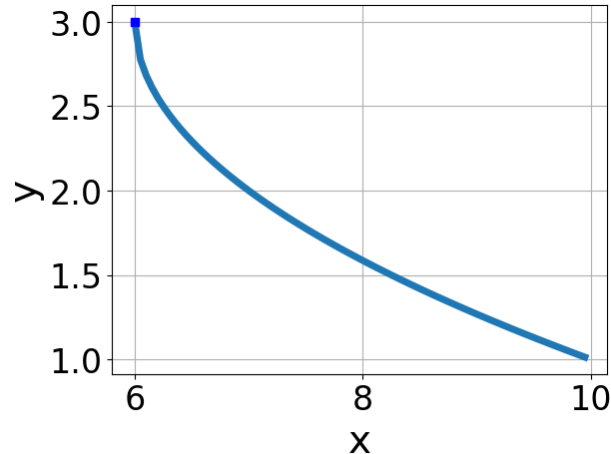
- D. $x_1 \in [-0.8, -0.19]$ and $x_2 \in [0.5, 5.5]$
E. $x_1 \in [-0.04, 0.7]$ and $x_2 \in [0.5, 5.5]$
-

8. What is the domain of the function below?

$$f(x) = \sqrt[4]{-7x - 4}$$

- A. $(-\infty, \infty)$
B. $(-\infty, a]$, where $a \in [-4.6, -1.5]$
C. $[a, \infty)$, where $a \in [-5, -0.7]$
D. $(-\infty, a]$, where $a \in [-0.8, 1.6]$
E. $[a, \infty)$, where $a \in [-0.7, 0.2]$
-

9. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt{x+6} + 3$
B. $f(x) = \sqrt{x-6} + 3$
C. $f(x) = -\sqrt{x-6} + 3$
D. $f(x) = \sqrt{x+6} + 3$
E. None of the above
-

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{18x^2 + 72} - \sqrt{90x} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
 - B. $x \in [-2.3, 2.4]$
 - C. $x_1 \in [-2.3, 2.4]$ and $x_2 \in [4, 8]$
 - D. $x \in [2.4, 4.1]$
 - E. $x_1 \in [-5.9, -3.9]$ and $x_2 \in [-4, 2]$
-